SEQUENCE LISTING

<110> James Karras
Thomas Condon

<120> ANTISENSE MODULATION OF MACROPHAGE INFLAMMATORY PROTEIN 3-ALPHA EXPRESSION

<130> ISPH-0623

<160> 32

<210> 1
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 1
tccgtcatcg ctcctcaggg 20

<210> 2
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 2
atgcattctg cccccaagga 20

<210> 3
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (59)...(349)

<400> 3
cactcccaaa gaactgggta ctcaacactg agcagatctg ttctttgagc taaaaacc 58

atg tgc tgt acc aag agt ttg ctc ctg gct gct ttg atg tca gtg ctg 106
Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu
1 5 10 15

cta ctc cac ctc tgc ggc gaa tca gaa gca gca agc aac ttt gac tgc 154
Leu Leu His Leu Cys Gly Glu Ser Glu Ala Ala Ser Asn Phe Asp Cys
20 25 30

tgt ctt gga tac aca gac cgt att ctt cat cct aaa ttt att gtg ggc 202
Cys Leu Gly Tyr Thr Asp Arg Ile Leu His Pro Lys Phe Ile Val Gly
35 40 45

ttc aca cgg cag ctg gcc aat gaa ggc tgt gac atc aat gct atc atc 250
Phe Thr Arg Gln Leu Ala Asn Glu Gly Cys Asp Ile Asn Ala Ile Ile
50 55 60

ttt cac aca aag aaa aag ttg tct gtg tgc gca aat cca aaa cag act 298
Phe His Thr Lys Lys Lys Leu Ser Val Cys Ala Asn Pro Lys Gln Thr
65 70 75 80

tgg gtg aaa tat att gtg cgt ctc ctc agt aaa aaa gtc aag aac atg 346
Trp Val Lys Tyr Ile Val Arg Leu Leu Ser Lys Lys Val Lys Asn Met
85 90 95

taa aaactgtggc ttttctggaa tggaattgga catagcccaa gaacagaaag 399

aaccttgctg gggttggagg tttcacttgc acatcatgga gggtttagtg cttatctaat 459
ttgtgcctca ctggacttgt ccaattaatg aagttgattc atattgcatc atagtttgct 519
ttgtttaagc atcacattaa agttaaactg tattttatgt tatttatagc tgtaggtttt 579
ctgtgtttag ctatttaata ctaattttcc ataagctatt ttggtttagt gcaaagtata 639
aaattatatt tggggggga taagattata tggactttct tgcaagcaac aagctatttt 699
ttaaaaaaac tatttaacat tcttttgttt atattgtttt gtctcctaaa ttgttgtaat 759
tgcattataa aataagaaaa acattaataa gacaaatatt 799

<210> 4
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 4
aaaccatgtg ctgtaccaag agttt 25

<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 5
cgccgcagag gtggagta 18

<210> 6
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Probe

<400> 6
gctcctggct gctttgatgt cagtgctg 28

<210> 7
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 7
gaaggtgaag gtcggagtc 19

<210> 8
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Primer

<400> 8
gaagatggtg atgggatttc 20

<210> 9
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR Probe

<400> 9
caagcttccc gttctcagcc 20

<210> 10
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 10
tacccagttc tttgggagtg 20

<210> 11
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 11
agtgttgagt acccagttct 20

<210> 12
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 12
agatctgctc agtgttgagt 20

<210> 13
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 13
ctcaaagaac agatctgctc 20

<210> 14
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 14
tggtttttag ctcaaagaac 20

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 15
gtacagcaca tggtttttag 20

<210> 16
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 16
aagttgcttg ctgcttctga 20

<210> 17
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 17
cagcagtcaa agttgcttgc 20

<210> 18

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 18
gtgtgaaaga tgatagcatt 20

<210> 19
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 19
attccagaaa agccacagtt 20

<210> 20
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 20
gtccaattcc attccagaaa 20

<210> 21
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 21
cttgggctat gtccaattcc 20

<210> 22
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 22
caaggttctt tctgttcttg 20

<210> 23
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 23
gtgaaacctc caaccccagc 20

<210> 24
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 24
ttagataagc actaaaccct 20

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 25
gcaatatgaa tcaacttcat 20

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 26
actatgatgc aatatgaatc 20

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 27
atgtgatgct taaacaaagc 20

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 28

cacagaaaac ctacagctat 20

<210> 29
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 29
gcactaaacc aaaatagctt 20

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 30
gcaagaaagt ccatataatc 20

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Antisense Oligonucleotide

<400> 31
gcaattacaa caatttagga 20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<221> unsure
<222> (1-20)
<223> Antisense Oligonucleotide

<400> 32
nnnnnnnnnn nnnnnnnnnn 20